

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,992	06/25/2003	Dan Daeweon Cheong	356828001US1	4507
25096	7590 10/28/2004		EXAM	INER
PERKINS C PATENT-SE			MEEKS, TIMOT	HY HOWARD
	P.O. BOX 1247 ART UNIT PAPER NU			PAPER NUMBER
SEATTLE, \	VA 98111-1247		1762	

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on			Application No.	Applicant(s)
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REDLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. I the MAILING DATE OF THIS COMMUNICATION. In no event, however, may a reply be timely filed alone for the communication. If the period for reply specified above is less than liftly (0) days, a reply within the statutory minimum of hirty (0) days with be considered timely. If the period for reply specified above is less than liftly (0) days, a reply within the statutory minimum of hirty (0) days with be considered timely. If the period for reply specified above is less than liftly (0) days, a reply within the statutory minimum of hirty (0) days with be considered timely. If the period for reply specified above is less than liftly (0) days, a reply within the statutory minimum of hirty (0) days with be considered timely. If the statutory is the statutory minimum of hirty (0) days with be considered timely. If the statutory minimum of hirty (0) days are period to the communication, even if timely filed, may retained any retained above the file communication. If the statutory minimum of the communication is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims If the above claim(s) is/are emplication. 4) Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are are allowed. Claim(s) is/are are allowed. Claim(s) is/are objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(a). It period to redeclaration is objected to by the Examiner. Note the attached Office Action or	Office Action Summary		10/606,992	CHEONG, DAN DAEWEON
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. TELEMENT on the marph a validation under the provisions of 3 CFR 1.136(a). In no overt, however, may a reply be timely fled The period for reply specified above is less than 18thy (30) days, a reply within the statistic preliminary of thirty (30) days with its conscience of timely, if the period for reply specified above, the maximum statutory period valid against any of wild light of the maining date of this communication. If the period for reply specified above, the maximum statutory period valid against any and valid against (so (MONTHs from the maining date of this communication, swen if timely fled, may reduce any same apartment in statutory in the period patient term adjustment. See 37 CFR 1.704(a). This action is FINAL. 2b) This action is FINAL. 2b) This action is FINAL. 2b) This action is FINAL. 2c) This action is final and the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 19-44 is/are pending in the application. 4a) Of the above claim(s) is/are ellowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * C) None of: 1 Certified copies of the			Examiner	Art Unit
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION Extensions of an empt be available under the provision of 10 feb. communication. If the pend of men my be specified body loads the provision of 10 feb. communication. If the pend of men my be specified body loads and the communication. If the pend of meny specified body loads have the set of communication. If the pend of meny specified body loads have the statutory minimum of pinty (30) days will be considered timely. If the pend of meny specified body loads have the statutory minimum of pinty (30) days will be considered timely. If the pend of meny specified body loads have the statutory minimum of pinty (30) days will be considered timely. If the pend of the communication of the pend of the p				
THE MAILING DATE OF THIS COMMUNICATION. Estending of time may be available under the provision of 3 CFR 1.136(a). Inno event, however, may a reply be timely filed Estending of time may be available under the provision of 3 CFR 1.136(a). Inno event, however, may a reply be timely filed Estending of time may be available under the provision of 3 CFR 1.136(a). Inno event, however, may a reply be timely filed Estending of time and the provision of the communication. If the period for reply supplies the statistic present within the value of the communication of the period for reply will, by attention and part of the filed of the communication of the period by the Office idea both, the nature of the communication of the period of the communication, even if timely filed, may reduce any variety pacent term dejustrent. See 37 CFR 1.794(b). Status 1) Responsive to communication(s) filed on	Period f	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	h the correspondence address
1) Responsive to communication(s) filed on	I H E - Exte afte - If th - If No - Faile Any	MAILING DATE OF THIS COMMUNICATION. Pensions of time may be available under the provisions of 37 CFR 1.13 If SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period period for reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing reply received by the Office later than three months after the mailing.	36(a). In no event, however, may a rep within the statutory minimum of thirty fill apply and will expire SIX (6) MONT.	(30) days will be considered timely. HS from the mailing date of this communication.
This action is FINAL. 2b This action is non-final.	Status			
This action is FINAL. 2b This action is non-final.	1)	Responsive to communication(s) filed on		
3				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 19-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5]	3)			rs prosecution as to the merite is
A) Claim(s) 19-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		closed in accordance with the practice under E	x parte Quavle, 1935 C.D.	11. 453 O.G. 213
Claim(s) 19-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.	Disposit		, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
4a) Of the above claim(s) is/are withdrawn from consideration. 5)				
5				
6			in from consideration.	•
Tolaim(s) is/are objected to. Solaim(s) is/are objected to estriction and/or election requirement.				
Solicition Sol		·		
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		•	election requirement.	
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. All Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:			, , , , , , , , , , , , , , , , , , , ,	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date See The Advance of Informal Patent Application (PTO-152) Paper No(s)/Mail Date See The Advance of Informal Patent Application (PTO-152) To the certified Copies of Informal Patent Application (PTO-152) Certified Copies of Informal Patent Application (PTO-152) Other:		•		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 10) Notice of Informal Patent Application (PTO-152) 11) Notice of Informal Patent Application (PTO-152) 12) Notice of Informal Patent Application (PTO-152) 13) Notice of Informal Patent Application (PTO-152) 14) Other: 15) Notice of Informal Patent Application (PTO-152) 16) Other: 16) Other: 17) Notice of Informal Patent Application (PTO-152) 18) Notice of Informal Patent Application (PTO-152)				the Everying
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Steel and Trademark Office	. •,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. riority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Other: 10				
12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1.	11)	The oath or declaration is objected to by the Exa	iminer. Note the attached (Office Action or form DTO 452
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1. Certified copies of the priority documents have been received in Application (PTO-413) Paper No(s)/Mail Date 5. Notice of Informal Patent Application (PTO-152) Certified copies of the priority documents have been received. 4. Interview Summary (PTO-413) Paper No(s)/Mail Date 5. Notice of Informal Patent Application (PTO-152) Certified copies of the priority documents have been received. 4. Interview Summary (PTO-413) Paper No(s)/Mail Date 6. Other: 1. Certified copies of the priority documents have been received. 4. Interview Summary (PTO-413) Paper No(s)/Mail Date 6. Other: 1. Certified copies of the priority documents have been received. 4. Interview Summary (PTO-413) Paper No(s)/Mail Date 6. Other: 1. Certified copies of the priority documents have been received.				Drice Action of form P10-152.
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date See Trademark Office 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Cother:	riority u	nder 35 U.S.C. § 119	:	
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date See Trademark Office 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Cother:	12) 🔲 ,	Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 1	19(a)-(d) or (f).
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Statement Office attent and Trademak Office attent and Trademak Office	a)[☐ All b) ☐ Some * c) ☐ None of:		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1 2304 Trademark Office				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Tatent and Trademark Office Trademark Office		2. Certified copies of the priority documents	have been received in App	lication No
* See the attached detailed Office action for a list of the certified copies not received. tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:				ceived in this National Stage
tachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Statent and Trademote Office 1.236 (Page 18.0)	* 0			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date At a 236 (Page 1894) Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:	~ 5	ee the attached detailed Office action for a list o	f the certified copies not red	ceived.
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date At a 236 (Page 1894) Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Other: Paper No(s)/Mail Date Other:	_			
☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date atent and Trademark Office	Notice	of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)
atent and Trademark Office	∐ Inform Paper	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) D Notice of Infor	
CHICP ACTION NIMMON DAMAS DAMAS NAME AND CONTROL OF CON	Patent and Tra DL-326 (Re		on Summary	Part of Paper No./Mail Date 20041026

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 19-23, drawn to compositions, classified in class 428, subclass 411.1+.
- II. Claims 24-44, drawn to a method, classified in class 427, subclass 8.

 The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the composition could be made by depositing the metals and sulphidizing.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to Edward Hotchkiss on 10/21/04 to request an oral election to the above restriction requirement, but did not result in an election being made.

Art Unit: 1762

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy H. Meeks whose telephone number is (571) 272-1423. The examiner can normally be reached on Mon 6-6, T-Th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P. Beck can be reached on (571) 272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy H Meeks Primary Examiner Art Unit 1762